48 J. R. Gregg



An

Inaugural Espay

on

Intermittent Fiver

for

The Degree

of Doctor of Medicine.



To The Trustees and Medical Faculty of the University of Pennsy lvania.

Gentlemen,

Is a conditate for the Me dical However of this University, I am called upon by its laws to lay beforeyou a Difertation on some subject connected with the science of Medicine. Accordingly I have reledite for the account the Dicese called Intermettent Facro

It could not be expected that I, a more I goo in Mexicine, should attempt to offer any thing seem on a subject, which has seeded the general and employed the peas of the suit distinguished sown of the Mide call Performance.

I shall, therefore, disclaim all preten-



with a brief history of the disease and the remedies which have been found mentau cefiful in the Tweetment of it.



Of Intermittent Fever An intermittent fever may be defined a disease which alternately commences and terminates at a particular or given time and is marked by regular and distinct periods. Its an example of this definition, I would say, that it came on, on a particular day, perhaps every or every other day, and at a particular hour on this day; sand is marked by a febrile rigour or chilly fit: and this fit is succeeded by a hot stage, which, after some space of time, your off entirely. But as the entervals of time, between the recurrence of the paropysous, are various, intermittent fever has been distinguished, by different appel When the disease commences and terminates every day, it is called a quotidian; when on alternate days or every other day, it is



called a tertian, in whom on every fourth . lay, it is cattled a great line. Other forms of this discore have been mention at by both account and modern writers weh

as the guntar, The section. The septan, the nelan, the noman be but there are of rare securrouse and well oblow in faller allen lien your me thour merely to wention the

yact

The double quarter begins and leave. notes at a groven hour for les days mous cepion and does not appear on the third day but again in the fourth and fifth days, as it did at first.

Triple ter lian one quartan have bour mentioned. The disease is called triple ter how when three parrays us seems in the years of hos days; that is, are wary sintern hours Alore frequently, hos pararysms to ke place on one day, while the next forous a day



of complete intermission: this form of the disease might be called a double tertian. But these forms of the disease seldom accur. When these fevers arise in the spring of the year, they are berinto bernal; and when in The Fall They are termed to tulumnal. Generally open king, the vernal intermit. tents are less obstinate, in yielding to medieal treatment, There automat. Intermettents, frequently, prove distinate, and of long continuance, especially, in warm ohmules on frymently resist every mode of heatiment, so as to become exceeding by. destrejoing to the patient, and give rise to other more obstinate diseases, but more particular ly dropsical swellings, diareha -as hysteria, a mer bed in largement of The liver and splice to Causes. They course which have alleged to this disease are various, a



number have considered it, as a desease link ing in the Prima wie and have stated, in peopl of this opinion, the construct count. ing which attends it in its first appearance; There, again, have consistered the Barreres as the rest, and an favour of this of sinion, have adverted to the schinouty which some times to his polace in this was. ous in intermettent fever. A great number of other causes have been mentioned; such as watery, poor dead, long wate hings, great fatigue, intemperance, much arrivety, debility, grief, exprosure to cold, lying in damp rooms or an damp beds; a warm most; or a cold damps atmosphere, the suppreprian of some ac ouslained ween tim; The reception of cruft lines. The preceding desente. It has been thought by some, that inter without force could be communicated by



contagion, Tota indeed it wanted appear to corroberate this opinion, seeing it is some . times communicated to the distance of eight or ten miles, but this seems to give from the can him glion of the would in the same direction for many days together and by this means wafting the off home from some distant for or logufter all their conjectures, however, the time cause appears to be mars hoffle via arising from negetable putrefar tion. There is an pentionly or intermedlent freen that is the face lety with a hich it is renowed from very stight courses. I may, for our tance, he renewed, by the prevalence of an East "lound, or its for mer existing cause may be repeated.

Intermettents differ in this circum-



stances, from most other fevers. lack paroxysm, of an intermittent fiver, has been divided into three stages, which have been de nominated, the Cold, The not and the sweating stages. When the febrile conse begins to act, whensation of coldness is immediately felt; There es great lasselude and heavisuss, a sense of unxiety, a youring and stretching; There is a paliness of The countinance The size or buth, of the external parts, becomes diminished and the skin appears to be contracted over the whole tody -After some time comes on the chelly fet, which appears in various forms Sometimes it com mences at the lower or tremities, and at other times, in the back it prevades the whole frame in a moune somewhat resembling streamlets of cold water irregularly pouries



in various directions -

The regains are sometimes so great, as to bring on one continued trement, The supereor intremities begin to shake; some times the inferior maxillary bone is severed a quick and quivering motion, which is at times very considerable; even so much so, as to produce an involuntary closhing of The teeth against each other. Being affected, by such motions, the un. fortunate sufferers are unable wither to stand or sil, but are obliged to be denne and contouct themse tres, that their him be may perefo against, the supposit each other The respera tion is frequent, mall and are rious, sense bility becomes impaired, The work is a livest colour less, and the

pulse is small, frequent and some lines creyalor.



In some very few instances, Muspiness and a diminution or even suspension of sense bility to his place to such an exline as to bear a resemblance to apopling or coma; but this rare by occurs -H ... t un preguently hoppins that the is hole locky is not affected in the same manner, by the cold stage of an intermittent fever The lower extremities are sometimes or trimely cola, while the upper parts of the body are exceptively hot. Some times the patient is affected arety in one arm or leg. Fir this gas through the rejutar stages. The last stage, of an intermittent fevery occasionally precedes the rold, and the cold stage some himes does not accord at all. These however, are many laws symps times wire deserve but little attention, There is also, now and then, are or equitarily



in the fet which precedes in intermittent. Sometimes it is lighter, and at other times were source.

Intermetants seem to be more severe in these persons who are very the air when a men related them in the year of youth.

The time, of the continue time of me in to without, is different in different cases, for in me cane, it may continue and y am at him have just in another case, it may continue for three hours are a large or furnished.

Should the rela git of an information, continue larger than and, we are not to constitute from this circumstance, that the had stage with the men sweet was distincted it is instead, sometimes the force one.



The hot stage of an intermittent fiver, in general, agrees to that of the cold; but it frequently happens, that a tremour, of but short duration, is followed by a were senire parcoysin of from of many hours continuation and on the contra ry . it sometimes beforeus, that a long celd fit is succeeded by a short, style attack of your. Twhen the p. mysms, of an intervillant fever , we so pretenger, us marty to run in . to our a other the cold fit is, in process, lejo plante perment. . If the the wide fet has can bound for some time it Han begin to about, and is fellowed by an increase of heat which, by degrees, specads over the whole beden is marked by considerable variety. To ap. pears to be more of the cold stage has been very severe; the whole body becomes flash -



ed. particularly the face, the thirst is very qual, with dryness of the mouth and shine There is, generally, a considerable pain in the head; the lemps of arteres throb, and there is, not un frequently, quat disquir tide, tops. my and anxiety; the respiration becomes more full and free, but still continues to be frequent; the longue breezes jured in The pulse were regular, hand and full, in The arme breezew higher coloured and in some instituces, were as licener supervenes. This coust hele what is called The section stages of an intermittent freez. soffler these symptoms have continued for same time. There a juste morstone may be preserved, first in the farehead which of ter a short time becomes a smeat, and gra dually spreads itself over the surface of The whole bedy.

elfter this stage there are appearing takes



place the all The functions seem to be restored to their natural state. The heat, which before pervaded The whole bery now begins to on boule The thirst, which was so very distrepong, now couses The viney which was so very high - estoned now becomes of its natural appearance in depose to a sediment respiration, which was impe. ded, now bees mes free and say and set a mearly will the functions seem to the restored to their healthy state, and tired nature sums to be removed, the patient is however, left in a fieble ince whans. tid condition. This completes the pouryour of an intermettent fever -· to the paroxysus again approaches, a distinc bonce or broads ned action of the system becomes more or less proceptible. The spectoach, of the fely generally rapposes in The same hour of the day; its order how-



wer, is sometimes intermpted. In exam. ple, it occurrently seems before its went time by longer a shorter intervals; and, occasionally after it.

Yohn a fet of the intermettent fever to he place, before the usual line of its opposer once, it is one endered to him that their is cone is acquaring against but of the frame of your at a take formed of the day, there were to it was to take for granter, that it is lining growing.

The symplems are to be emerchand as unfamour able, when the parcays me are long, matent, and alternated with much aspecby has discussed in the head, when the evanuation are filed, when depending a cholera Marches supermines, and when there is are embargement of the hour or Stylem are But when the borry jones are short and



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regular on their return, and leve the in terval quite fice. There in a short time, we may expect the solution of the disease. Treatment. It now remains for me to heat of the cure of an intermet. tent ferer. It will appear to many, unnecessary for me to speak of this at all: for there is scarcely an old woman that does not consider herself compelant to care this disease. In intermettent fever, some lines, ter. minules spontaneous ly, a may, in ma. my instances, be easily cured. In some cases, however, it is ex trime by, dangerous the very difficult to be removed. It. now and them, terminates by a spouta. means diver hea, by a flow of wrine, or by some other unwe tory. The window, " buch have been wites in The rare of an intermettent, are very musuer -



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our and various; I shall endeavour, therefore to mention those, I hick have her everplayed with the quatest advantage. The punusal indications, a hick per. sent thurselves in the cure of an inter. mittent fever, are, in the first place to shorten the duration of the poronyone, and in The second place, during The apyresia, to prevent its return, at the usual, or any period afterwards. To iffeet the first of these indications, it will be proper to place the patient, in. mediately we bed ; if we showing be catter during the cold stage, and then give him warm do brent drinks, we pedileviam and cordial deap horeties: suchas a table-sprompul of speritus mendereri ! we are take of ammonias to here in warm committe tea; or it may be taken in wine " hoy every home, with I the chilly like



ger off. There are going or the a view to quite jury praction. The forming we has belowing been used

The Fouriers his bluise line week, but I be took all the how him primarith considerable alkale his him primarith considerable advantage on the slage of intermedial from attended completes and Sprimary. The last mentioned remedy.

now been found peculiarly revoiceable, both by allowating law and bunging on a gentle diaphoreis.

H is merchand, by T. Trellog in a much ve willed Medicino, Nauchica, that in a few minutes of the partial, were a le con human, a hoch was fellimes by a relaxation of the surface of the body; the convertament between cheerful, and a flock was spread out the chee his. The behavior reports the imment that the



sick felt the approach of an allack, they would immediately men to him for their drops. He mentions that he never gave · less than thirty drops of landamen and and never had accasion to give more than sixty in the space of an hour, and the sumedy did not fail to give relief in a single instance: The pulse a hich was weak quick and some times irregular before The exhibition of a dose, would after wards become less frequent, full and equal; an agreeable wounth was diffused over the surface of the whole body, in wery empleasant feeling von. is had in a short line. If a very large dose had been ex bubit ed . I would some times accasion steeps, but this was, by no means, a com circumstance. D. Trotter also men trans. The second



paroxysm was commonly an house or two tales than the preceding one, and but few instances accurred where any indusposition indicated a third attack, al The expected period of accepsion." Julys hurre ather holds a foliace, in the list of remedies, in the esta slaye of an intermittent four The quantity we which it is given, is about our draction for a dose: it fopenes to prevent, in some degive, the coming on of the hot stage. Emelies have been very strongly recommended in this stage of intermittent fiver by some writers. They appear to be arejui by producing perspiculians and we destroying the morbid con cate. na how motived by the cause of the dis are, and thereby, prevent a return of The paroxysm. But, above all the reme. dies, which have been mentioned,



opinm opposes to be decidedly the best of thembe the patent to brown bed with engle into a point in the side, is severe, as to applicate and whenthe use the reduced the opposed and whenthe use the reduced the opposed to take away a small proper to take away a small proper to take away a small proper to take away to prompting a their many to opposed to the back of the back of

If the legs should suffer much, from a very great digree of I dunes, and the partie, and the parties may be supplied to the feet. Them, be sinking since the stay the color singe, of an intermitted fury we shall next say a few words concerning the hot I ago.



In the brokenest of the het stage, there is a longlike indication in the first place to reme a circulations which may seem from but on the stomach to with this wien, a done of emplie total should be administered. The sportion of which, may be incorrespon by the use of morning the incorresponding to the use of morning the memorages by the use of morning the memorages by the use of morning the memorages by

The most remedies, a buch come in we are as of meeters on the as James long down sees, Emely so prompt in it actions. The last mean things with well and the stammach of him has been used by rown writer, in the last stage of intermettents, by I have for our, if I am me instaken, and for our, if I am me instaken, we are for our, if I am me instaken, we are found for our, if I am me instaken, we are so that is an important practice, in as somethan it increases had as the and against as it increases had as the and against as it increases had as the and against a let the symplomes.



Intermettent fewer, semetimes, we we inplanematory, especially in the spaining of The year, the symptoms are as fellow; a strong; full pulse, latining respir tion, of bus hed came tename, pain in the head de In These cases weressetten should be employed, and the abunutary concel should be warmited. When we have, be true means oblamed a complete in termiseran, then the peruvian back should be used, in large doses one or two drachous may be given in the space of an hour, favoreded the sto. mach well hear so great a quantity. The henefet, orising from the adminis traction of the back depends very me he on a large your ties being your new a shore space of line. I handa not the back rest well on the



stomach in powder, it may there, be given in decertion, infusion or extract, joined with same aromatic, to make it more palala le ble; such as, histoire of averye back. The following formula on. sivers very well: He is tract: airchan: grxv. Level and how : If in wi W, Sind Coll: Union 2: 13 to nel 15% . I drong to of this mis here may be taken mery two hours I have be the book be rejected from The stomach, in all the forms a lich have been mentianed, we may then your it by injection: he this man ner, el faguent ly proves beneficial The quantity to be used for this pur poss, is about our draction or One deading and a half of its extract, deforted in a sufficient quantity of water, to which may be added a few drops of the time ture of aprime at will, by the addi-



tion of the pieces, be larger retained.

The use, of the back by wyiction, may be found convenient for those patients, who cannot be presailed upon to take it in any the form. It may be faine peen. tiarty services ble on the cases of chil. drew: to whom I is very difficul to administer measures of any hind. External risp heations, of the buck, have, to he were, been found use ful, in the cases of children, by means of the back jack il: it opposes to act, beneficially, by muting a tonic impression on the skin, and this is commenced to the stomach by asympathetic or some other mode. The common dak book, I have seen used advantagrans by in this manner. The last when your internally, has been com bired with various see tolowers, in order



be increase its effect, but they seem ruther to diminish, thou increase it. In case the back should purge, when given in brinally, a few drops of the tineture of opium may be used, or " of or " of the Smeling of Himo, On the contrary, if it should Buduce constipation, some gentle l'exaline may be com hined with it, or a few grains of Bondona The back. Previous to the exhibition of the book. preparatory measures should be employ ed. The system should be prepared, by evacuations from the alimentary court, by one his are cal hartes. we know the Buselin, it would be harardous to administer the back; as many very in jurious effects might be the course. quence: for this purpose, Emetic Tortor and colony law querally used. Emetics seem to act in a teropola point



of view: in the first place by merely evacuating the stomach; and secondly by making an impression in it. Blood letting has accasionably proved a useful precantian to The administra. tion of the back. The back may almost be considered as a specific remedy, in intermittent fe wer. In violent cases it should be can timed during the night as well as day In per tome his a place amongst . Then mudes in networnittent, and by systembure it was were with wine; It very well suits The cases of children and Those of a weak and delicate habit. It assets The back in a state of combination; The following prescription has here famed useful: By Cout: Brun 13/1, Sup Vague 7; Carl Fod this may be di wided into four powders, and These



may be given in the course of the day. This prescription well sometimes cure intermittent fever, when all other reme. dus fail. The Eupartorium Perfoliatum has been given in decoction; it acts as a diapheretic or divertic. Angustura has been used with adewantage in intermittent fever; il may be given putty much on the same mon wer as the peruvious Bart. . Ha hegany, in decor how as infusion, has also been given; as likewise have the different species of you have an qualities Thino has been freely employed on this city, The public vace is ; however, against it. This formula has how ever, sometimes been found weeful -A gum Kins Zij, Rad: gent: "3/s, Gum opin gr. if theft. This prescrip.



how is to be devided into twelve flow ders: one, of which, is to be given everytwo hours. Charcoal is sometimes useful, in in. termittents, by correcting fator; the dose is whom & our bracken, to be upon led about as often as They permian book. Bulphur has her weed and it has been found equally wee put when and with with as with spiritume liquors. Sulphale of Copper or blue bitral has been employed in the following foremula: Hy: Sulphas Cupri gr W, Cal . Perus: gr XXXV. divide this map into so, leve Bills, one of which is to be taken we ye three hours. Copreme dumoniaeura on the different perpare tions of fine, particularly, to hite l'itrest have some times been fours use Common a lam, or Sulphete of the more



has been used in the treatment of this disease.

otherwise also holds a comprise on place amongst the remedies for intermittent for me and most to the fermion flock per hope of most may be considered the most well for C. In the cases of the letter, it will be formed a very difficult to get medium to take as it is very difficult to get them to take the back. The frespectation of the same is the surread of the time of the same is the surread of the time of the same is the surread of the time of the same is the surread of the time to be to the law strategy that there time a day according to the

ye of the for hind so. The species well on the fire commendate by human ward, highly recommended by our present worthy people of the Throw and fine her of Meaning in the down of fine hours.



In cases of intermittent fewer, it will be merepary to continue the use of the book, for some time ofter the disappearance of the pararyones, as they are apt to return. The precise longth of home that the reme. dy, should be wire ofter the poroxyours have disappeared, it is difficult to de ber were. It might not be improper to continue the use of the back on the some done for some days after The dis appearance of the paroxyme, and very gradually usid from its use own then should there be any droup weather or we favourable would it may, be were with advantage, during their prome lince. . to there are different species of back, to be met with it may not be in proper to say a few words on this subicel. It appears, however, from well · Hister facts. That the yellow back



is superior to the red; it appears to be

more bitter and of a more astringent quality. The yellow book, given in pow der, way, two or three hours, in the dose of about half a drachen has been forming

for the most part, sufficient for the ourse of an intermittent fiver.

as I have before said, it frequently, hope pure, after the long continuation of min

hamiltent four, that obstructions one formed in the line one other of the

abdominat viscere; when this happens merenry is the remedy, an which we

are principally to rely.

I houte dropsy supervent from any cause who lever; whe ther from visceral she truction or from general de bility which is often the result of a protrace had intermetent, it is to be treated by the remedies proper for that form of



disease; such as tonies, diwreties se. It now only remains for me to say a few words on The subject of regimen. This should be light and mutations: Rice, Borly, Ba rado de should be taken as food. Thimal food, in a very small quantity may be taken, and a little wine also, when there is a complete intermission. Sometimes the most beneficial effects are to be derived from a change in situation. Should the patient un, an near a marshy country, he should remore to a situation more elevated. Color Bathing) is sometimes advantage. and especially when more of the his cera on affected. Thus have I indeavoured, agreeably to my proposition on the first page of this Epay, to delineate the common course,

of an intermettent fever; and to encume



rate the remedies, suited to each stage of the disease. If I have amitted to mention a great variety of mexicines, that have been acea. simally, employed by the different authors, who have written an the subjeck, from the days of Hippocrates down to The present time, it has been from a disposition to avoid trespagning upon your time and patience. Tooth sincere wishes for your welfare and for the prosperity of mexicine, I am, Gentlemen, sincerely yours, John Ryland Grigg.

Philadelphia Nov. 1819.

